

CLAIMS

1. An agrichemically effective formulation comprising:
 - a. an agrichemically effective active ingredient in an agrichemically effective amount, wherein said active ingredient may emit odors that are generally objectionable to human perception,
 - b. 0-90 wt% of an aromatic solvent for said active ingredient, and
 - c. a masking agent comprising a terpene or oxygenated derivative thereof in an amount sufficient to reduce human perception of objectionable odors from said formulation.
2. A formulation according to claim 1 wherein said active ingredient comprises a sulfur molecule-containing active ingredient in solid form.
3. A formulation according to claim 1 wherein said active ingredient comprises phosphoroamido(di)thioate solids.
4. A formulation according to claim 3 wherein said active ingredient comprises acephate.
5. A formulation according to claim 3 wherein said masking agent comprises citral, camphor, alpha-pinene, beta-pinene, terpineol or limonene.
6. A formulation according to claim 5 wherein said masking agent comprises an essential oil.
7. A formulation according to claim 6 wherein said essential oil smells like a citrus fruit.

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8. A formulation according to claim 7 wherein said essential oil smells like lemon, lime, or a combination of lemon and lime.
 9. A formulation according to claim 6 wherein said essential oil has been synthesized.
 10. A formulation according to claim 1 wherein said active ingredient is in a solid form and the formulation further comprises a binder.
 11. A formulation according to claim 10 wherein said binder is a polymer.
 12. A formulation according to claim 11 wherein said binder comprises a polyalkylene oxide.
 13. A formulation according to claim 12 wherein said binder comprises a polyethylene oxide.
 14. An insecticidally effective formulation comprising:
 - a. phosphoroamido(di)thioate solids in an insecticidally effective amount, wherein said solids emit odors that may be objectionable to human perception,
 - b. a masking agent comprising a terpene or oxygenated derivative thereof in an amount sufficient to reduce human perception of objectionable odors from said formulation.
 15. An insecticidally effective formulation according to claim 14 wherein said masking agent comprises citral, camphor, alpha-pinene, beta-pinene, terpineol or limonene.
 16. A formulation according to claim 14 wherein said masking agent comprises an essential oil.

17. A formulation according to claim 16 wherein said essential oil smells like citrus fruit.

18. A formulation according to claim 17 wherein said essential oil smells like lemon, lime, or a combination of lemon and lime.

19. A formulation according to claim 16 wherein said essential oil has been synthesized.

20. A formulation according to claim 14 wherein said formulation further comprises a binder.

21. A formulation according to claim 20 wherein said binder is a polymer.

22. A formulation according to claim 21 wherein said binder comprises a polyalkylene oxide.

23. A formulation according to claim 22 wherein said binder comprises a polyethylene oxide.

24. A formulation according to claim 20 wherein said essential oil has been sprayed onto a granule comprising said phosphoroamido(di)thioate solids and said binder.

25. A formulation according to claim 20 wherein said essential oil has been admixed with said phosphoroamido(di)thioate solids and said binder and extruded to form a solid granule.

26. A process for making granules containing insecticidally effective phosphoroamido(di)thioate, said process comprising the steps:
extruding at ambient temperatures an extrusion mixture comprising phosphoroamido(di)thioate solids, a binder, and less than 5 wt% water to form homogeneous extrudates,
drying said extrudates to a moisture content of less than 1 wt%, and
spraying an anhydrous masking agent onto the dried extrudates.
27. A process according to claim 26 wherein said phosphoroamido(di)thioate solids comprise acephate.
28. A process according to claim 26 wherein said extrusion mixture also comprises silica as an anticking agent.
29. A process according to claim 26 wherein the extrusion mixture is essentially homogeneous and consists essentially of 0.2-0.75 wt% of a polyalkylene oxide binder, no more than 1.5 wt% silica powder, 2-4 wt% water, and phosphoroamido(di)thioate solids.
30. An insecticidally active composition comprising:
phosphoroamido(di)thioate solids,
a water soluble polymeric binder,
an optional anticaking agent,
less than 5 wt% water, and
a masking agent in an amount effective to mask human perception of objectionable odors from said phosphoroamido(di)thioate solids.
31. A composition according to claim 30 wherein said phosphoroamido(di)thioate solids comprise acephate.

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32. A composition according to claim 30 wherein said water soluble polymeric binder comprises a polyalkylene oxide.
33. A composition according to claim 32 wherein said polymeric binder comprises polyethylene oxide or polybutylene oxide.
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34. A composition according to claim 30 in the form of a dried granule comprising:
at least 95 wt% acephate.
0.1-1 wt% polyalkylene oxide,
no more than 1.5 wt% silica but in an amount sufficient to act as an anticking agent,
less than 0.5 wt% water, and
an essential oil as a masking agent for odors from said acephate.

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